

OMB No. 2010-0032  
Expiration Date: 06/30/03

Home

Contact Us

Cover Page

Section A

Section B

Section C

Section D

Section E

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**Facility Name:**  Monsanto Company - Muscatine, Iowa Plant  
**Performance Track ID #:** A070007  
**Annual Performance Report #:** 1  
**Reporting Year:**  2001  
**Due Date:** 07/01/2002

**Performance Report Status:** Approved

[Next page](#)

## Section A. General Facility Information

Please supply or revise information in A.1 – A.8 as is necessary to ensure that it is accurate, complete, and up-to-date. Items A.9 and A.10 cannot be pre-completed; please respond as directed in A.9 and A.10 below.

### A.3 Facility contact person for the Performance Track program

**Name:** Christy McGuire  
**Title:** Environmental Engineer  
**Phone:** (563) 262-7148  
**Fax:** (563) 262-5604  
**E-mail:** christy.m.mcguire@monsanto.com

### A.4 Facility's location

**Street Address:** 2500 Wiggins Road  
**Address (cont.):**  
**City:** Muscatine  
IA

State:  
Zip Code:

52761

A.5 Facility's Website address (if any): ?

A.6 Number of employees (full-time equivalents) who currently work in the facility: ?  
100-499

A.7 Does your company meet the Small Business Administration definition of a small business for your sector? ?  
No

A.8 North American Industrial Classification System (NAICS) Code(s) that are used to classify business at the facility: ?

A.9 In your application and, perhaps, in previous annual performance reports, you described what your facility does or makes. Have there been any (additional) changes to your facility's list of products and/or activities? If so, please list them here: ?

Yes  
The plant no longer formulates granular herbicide products.

A.10 Please update the list of environmental requirements that apply to your facility by listing any changes that have taken place during this reporting period. If you have no changes to report, please enter "No changes". ?

Revised environmental requirements checklist attached. Added Tanks and Use and Management of Containers to #4 of Hazardous Waste Regulations. Added #5 of Hazardous Waste Regulations. Added #18 of Water Pollution Control Requirements. Deleted #5 of Drinking water Regulations which was included in the original application in error.

[Previous](#)

[Save and move to next page](#)

## Section B. Environmental Management System ?

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B.1 Environmental Management System Assessment.  
Please summarize EMS assessments conducted during the year. ?

- a. Was an EMS audit or other assessment done by an independent third party? ☐

No

If yes, please provide the type (e.g., ISO 14001 certification), the scope, and the dates (mo/yr) of each assessment.

Type	Scope	Dates (mo/yr)

- b. Was an internal or corporate EMS audit conducted? ☐

No

If yes, please provide the scope and dates (mo/yr) of each audit.

Scope	Date (mo/yr)
A corporate environmental audit of compliance and systems was conducted in 2000. This audit audits compliance with both regulatory and Monsanto fundamental requirements and the management systems of the site.	


- c. Was a compliance audit conducted? ☐

No

If yes, please provide the scope and the dates (mo/yr) of each audit,  
and indicate who conducted the audit(s) (e.g., facility staff, corporate groups, third party).

Scope	Date (mo/yr)	Who conducted the audit
As noted above, an environmental audit was conducted in July, 2000. The site receives audits triennially and is		


scheduled to be audited again in 2003. The auditors are staff members of Monsanto's corporate Environmental Foundation Team. These are staff people with extensive experience and knowledge of environmental regulations. The scope of the audit includes compliance with all state and federal environmental statutes and regulations (CAA, CWA, RCRA, SARA, CERCLA, etc.)	

- d. **(Optional) If you would like to describe any other audits or inspections that were conducted at your facility, please do so here.** 

Monsanto Muscatine also has an internal compliance auditing system - Muscatine Compliance Audit Program (MCAP). Approximately 200 audits are conducted annually on various ESH requirements. The Muscatine Plant also receives annual air and wastewater compliance inspections by the Iowa Department of Natural Resources. No deficiencies have been noted in the past two years. The plant also receives periodic inspections on SDWA compliance, RCRA compliance, Sanitary Disposal Project, SARA, and other regulatory compliance. Again, there have been no deficiencies noted on these inspections in the past two years.


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- e. **Briefly summarize corrective actions taken and other improvements made as a result of your EMS assessments and compliance audits.** 

As a result of the EPA's NEPT audit, the plant has initiated an upgrading of its EMS system. Key elements to be added are improved development and prioritization of environmental aspects; and improved auditing and documentation of the EMS.

Key improvements from the corporate environmental audit were improved quality assurance surrounding analytical instrumentation and numerous small documentation enhancements to reports and records that are required to be retained.

- f. **Has your facility corrected all instances of potential non-compliance and EMS non-conformance identified during your audits and other assessments?** 

Yes

**If no, please explain your plans to correct these instances.**

The site is working with the Iowa Department of Natural Resources to resolve a potential issue relating to air construction permitting.

- g. **When was the last Senior Management review of your EMS completed?** 

5/01 (mo/yr)

**Who headed the review?**

**Name:** Mr.Tom Ward

**Title:** ESH Business Unit Leader

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- B.2 **ISO 14001 Certification. Is your facility currently certified to ISO 14001?** 

No

**B.3 Environmental Aspects Identification.** When did your facility last conduct a systematic identification and/or review of your environmental aspects? 

0/0(mo/yr)

**B.4 Progress Toward Achieving Objectives and Targets.** In the table below, please provide a narrative summary of progress made toward EMS objectives and targets. You may limit the summary to environmental aspects that are *significant* and towards which progress has been made during the *reporting year*. In cases where *progress* relates specifically to a Performance Track performance commitment, complete the Environmental Aspect column, but in the *Progress* column simply refer to the performance commitment tables in Section C, i.e. "See Section C." 

<i>Environmental Aspect</i>	<i>Progress Made This Year</i> (e.g., quantitative or qualitative improvements, activities conducted)
Total Solid Waste	See Section C.
Prairie Restoration	The Muscatine Plant has three habitat protection areas surrounding the plant: (1) Big Sand Mound Nature Preserve; (2) sand prairie restoration area, and (3) butterfly garden. Progress in 2001 was additional butterfly milkweed plantings made at the butterfly garden. A Boy Scout Eagle project was supported that installed a trail connecting the butterfly garden and the prairie restoration area demonstration plots. Benches for student visits were installed in the butterfly garden as part of the Eagle Scout project.
	Muscatine leadership made reporting of minor accidental spills

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[Previous](#)[Save and move to next page](#)

## Section C.

### Environmental Performance Commitments

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Please use the tables below to summarize your facility's environmental performance against your Performance Track performance commitments. Complete only those boxes related to the baseline, current year, and performance commitment.

[View Examples of Completed Tables](#)

#### C.1 Performance Commitment 1

- a. Use this table to report data related to your first performance commitment. 

Category: 	Energy Use				
Aspect : 	Total Energy Use				
	Aspect Specifics (Optional):				
	Baseline (as stated in your application) 	Year 1 	Year 2 	Year 3 	Performance Commitment (the goal stated in your application) 
Calendar Year 	2000	2001	2002	2003	2003
Actual Quantity (per year) 	360,000	230,000			Optional:
Measurement Units 	mmBtu				
Normalizing Factor 	1.0	1.35			Optional:
Basis for your Normalizing Factor 	Pounds Product				
Normalized Quantity (per year) 	360,000.0*	170000*			155,000

- b. Briefly describe how you achieved improvements for this aspect or, if relevant, any circumstances that delayed progress. ?

Converted portions of a process that operated on a batch basis to operate continuously. This resulted in significantly reduced electricity and steam demand.

If you have additional information that you would like to include, please attach it here:

Any attachments will be located at the end of the report.

- c. Please list any other EPA voluntary programs to which you are also reporting these data (e.g. Energy Star, Project XL). ?

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## C.2 Performance Commitment 2

- a. Use this table to report data related to your second performance commitment. ?

Category : ?	Water Use				
Aspect : ?	Total Water Use				
	Aspect Specifics (Optional):				
	Baseline (as stated in your application) ?	Year 1 ?	Year 2 ?	Year 3 ?	Performance Commitment (the goal stated in your application) ?
Calendar Year ?	2000	2001	2002	2003	2003
Actual Quantity (per year) ?	190,000,000	150,000,000			Optional:
Measurement Units ?	gallons				

<b>Normalizing Factor</b> ?	1.0	1.35	<b>Optional:</b>
<b>Basis for your Normalizing Factor</b> ?	Pounds Product		
<b>Normalized Quantity (per year)</b> ?	190000000*	110000000*	95,000,000
<b>*Calculated for you</b>			

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- b. **Briefly describe how you achieved improvements for this aspect**  
**or, if relevant, any circumstances that delayed progress.** ?  
 Reduction of energy use included reduction in steam demand. This reduced the amount of water needed for steam production. This process unit also increased the amount of water recycling within the process thereby reducing fresh water needs.
- If you have additional information that you would like to include, please attach it here:**  
 Any attachments will be located at the end of the report.
- c. **Please list any other EPA voluntary programs to which you are**  
**also reporting these data (e.g. Energy Star, Project XL).** ?

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### C.3 Performance Commitment 3

- a. **Use this table to report data related to your third performance commitment.** ?

<b>Category :</b> ?	Waste
<b>Aspect :</b> ?	Total Solid Waste
	<b>Aspect Specifics (Optional):</b>

	Baseline (as stated in your application) ?	Year 1 ?	Year 2 ?	Year 3 ?	Performance Commitment (the goal stated in your application) ?
Calendar Year ?	2000	2001	2002	2003	2003
Actual Quantity (per year) ?	5,700,000	2,900			Optional:
Measurement Units ?	lbs				
Normalizing Factor ?	1.0	1.35			Optional:
Basis for your Normalizing Factor ?	Pounds Product				
Normalized Quantity (per year) ?	5700000*	2100*			0
*Calculated for you					

- b. Briefly describe how you achieved improvements for this aspect  
or, if relevant, any circumstances that delayed progress. ?
- Process optimization to reduce impurity formation coupled with recycling within a process of a waste stream that was previously discarded. Losses in 2001 occurred prior to the changes being made; since the changes, stream generation is nonexistent.
- If you have additional information that you would like to include, please attach it here:  
Any attachments will be located at the end of the report.
- c. Please list any other EPA voluntary programs to which you are  
also reporting these data (e.g. Energy Star, Project XL). ?

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## C.4 Performance Commitment 4

- a. Use this table to report data related to your fourth performance commitment. ?

Category : ?	Discharges to Water				
Aspect : ?	BOD Discharges to Water				
Aspect Specifics (Optional):					
	Baseline (as stated in your application) ?	Year 1 ?	Year 2 ?	Year 3 ?	Performance Commitment (the goal stated in your application) ?
Calendar Year ?	2000	2001	2002	2003	2003
Actual Quantity (per year) ?	39,000	3,600			Optional:
Measurement Units ?	lbs				
Normalizing Factor ?	1.0	1.35			Optional:
Basis for your Normalizing Factor ?	Pounds Product				
Normalized Quantity (per year) ?	39000*	2700*			11,000
*Calculated for you					

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- b. Briefly describe how you achieved improvements for this aspect  
or, if relevant, any circumstances that delayed progress. ?

Process optimization coupled with additional internal recycling of waste streams resulted in a reduction of BOD loading to the site's Wastewater Treatment plant and ultimate discharge to the river.

If you have additional information that you would like to

include, please attach it here:

Any attachments will be located at the end of the report.

- c. Please list any other EPA voluntary programs to which you are also reporting these data (e.g. Energy Star, Project XL). ?

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If your facility submitted more than 4 performance commitments, click below to add more tables.

[Previous](#)

[Save and move to next page](#)

## Section D. Public Outreach and Performance Reporting

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- D.1 Please briefly summarize the public outreach and reporting activities that your facility has conducted during the year. Feel free, but not obligated, to attach supporting materials (e.g., meeting agendas, public announcements). ?

Monsanto - Muscatine has the following public outreach activities:

- (1) The plant hosted an open house in 2001. The plant conducts an open house every 3 - 4 years. Approximately 1,500 people visited the plant at this event. A NEAT status report was prepared and available for the day.
- (2) Corporate Monsanto annually publishes a Sustainability Report. This report presents environmental and pollution prevention data for all of Monsanto.
- (3) The plant has had a Community Advisory Panel (CAP) for approximately ten years. This is a group of community volunteers who meet quarterly to advise and guide the Plant Manager on issues the plant needs to address.
- (4) Community Relations Committee - The plant has

had a Community Relations Committee for several years. This is a group of plant employees who voluntarily serve to help the plant in public outreach. The Community Relations committee annually updates the plant's Community Outreach plan. This plan outlines the plant's activities to address issues noted in a recent survey of the community. 2001 activities included Mississippi River Clean-up Day, sponsoring wildlife presentations in local schools, planting trees along the river front, and promoting National Chemistry Week in local schools.

**Add Attachment:**

Any attachments will be located at the end of the report.

**D.2 Please indicate which of the following methods your facility plans to use to make its Performance Track Annual Report available to the public. Please check as many as appropriate.**



Open House, Community  
Advisory Panel

**URL:**

**Please Specify Other:**

[Previous](#)

[Save and move to next page](#)

**Section E.**

**Self-Certification of Continued Program Participation** 

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The U.S. Environmental Protection Agency is not yet in a position to accept electronic signatures and therefore requests a faxed, signed copy of the Section E page. Thus, for the purposes of this on-line report, please complete all of Section E, with the exception of providing a signature. When you submit your Annual Performance Report, the system will prompt you to print Section E. Please do so, sign (or have signed) Section E, and fax it to the Performance Track Information Center at (617) 354-0463.

**On behalf of** Monsanto Company - Muscatine, Iowa Plant,  
**(name of my facility)**

**I certify that**

**-- I have read and agree to the terms and conditions as specified in the *National Environmental Performance Track Program Guide*. This facility, to the best of my knowledge,**

continues to meet all program criteria;

-- I have personally examined and am familiar with the information contained in this Annual Performance Report. The information contained in this report is, to the best of my knowledge and based on reasonable inquiry, true, accurate, and complete;

-- My facility has an environmental management system (EMS), as defined in the Performance Track EMS criteria, including systems to maintain compliance with all applicable federal, state, tribal, and local environmental requirements, in place at the facility, and the EMS will be maintained for the duration of the facility's participation in the program;

-- My facility has conducted an objective assessment of its compliance with all applicable federal, state, tribal, and local environmental requirements; and the facility has corrected all indentified instances of potential or actual noncompliance; and

-- Based on the foregoing compliance assessments and subsequent corrective actions (if any were necessary), my facility is, to the best of my knowledge and based on reasonable inquiry, currently in compliance with applicable federal, state, tribal, and local environmental requirements.

I agree that EPA's decision whether to accept participants into or remove them from the National Environment Performance Track is wholly discretionary, and I waive any right that may exist under any law to challenge EPA's acceptance or removal decision.

I am the senior manager with responsibility for the facility and am fully authorized to execute this statement on behalf of the corporation or other legal entity whose facility is part of the National Environmental Performance Track program.

Signature/Date

Printed Name

Mr. Oscar C. Berryman

Title

Plant Manager

Phone Number

(563) 262-7200

E-mail Address

Oscar.C.Berryman@Monsanto.com

Facility Name

Monsanto Company - Muscatine, Iowa  
Plant

**Facility Street Address** 2500 Wiggins Road  
Muscatine, IA 52761

**Performance Track ID#** A070007

## **Appendix:**

**Do you want to add an Appendix?** Yes

**When adding additional comments, please refer to question number.**

**Comments:** Revised Environmental Requirements  
Checklist

## **Attachment:**

View attachments here:

[Environmental Requirements Checklist Revised.doc](#)

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## [Previous](#)

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This page last updated: May 18, 2001

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